

## HIGH CAPACITY FOOD PROCESSING SYSTEM

### ABSTRACT OF THE DISCLOSURE

5 A high capacity food processing system, including for an elongated strand of food product such as hot dogs, sausage links, etc., has first and second loading stations with serial accumulators enabling intermittent stopping of the loading operation, which is a necessary and normal part of use, without disrupting a downstream thermal process, and enabling differential conveyor velocities through the loading stations, including a loading velocity for loading food product on the  
10 conveyor, a bypass velocity during intermittent non-loaded conveyor segments, and a transport velocity through the processing station, wherein the transport velocity is less than the bypass velocity and greater than the loading velocity, and where the transport velocity remains constant and the same during both of the loading and bypass velocities of the conveyor at the loading stations and also remains constant and the  
15 same during stopped movement of the conveyor at the loading stations.